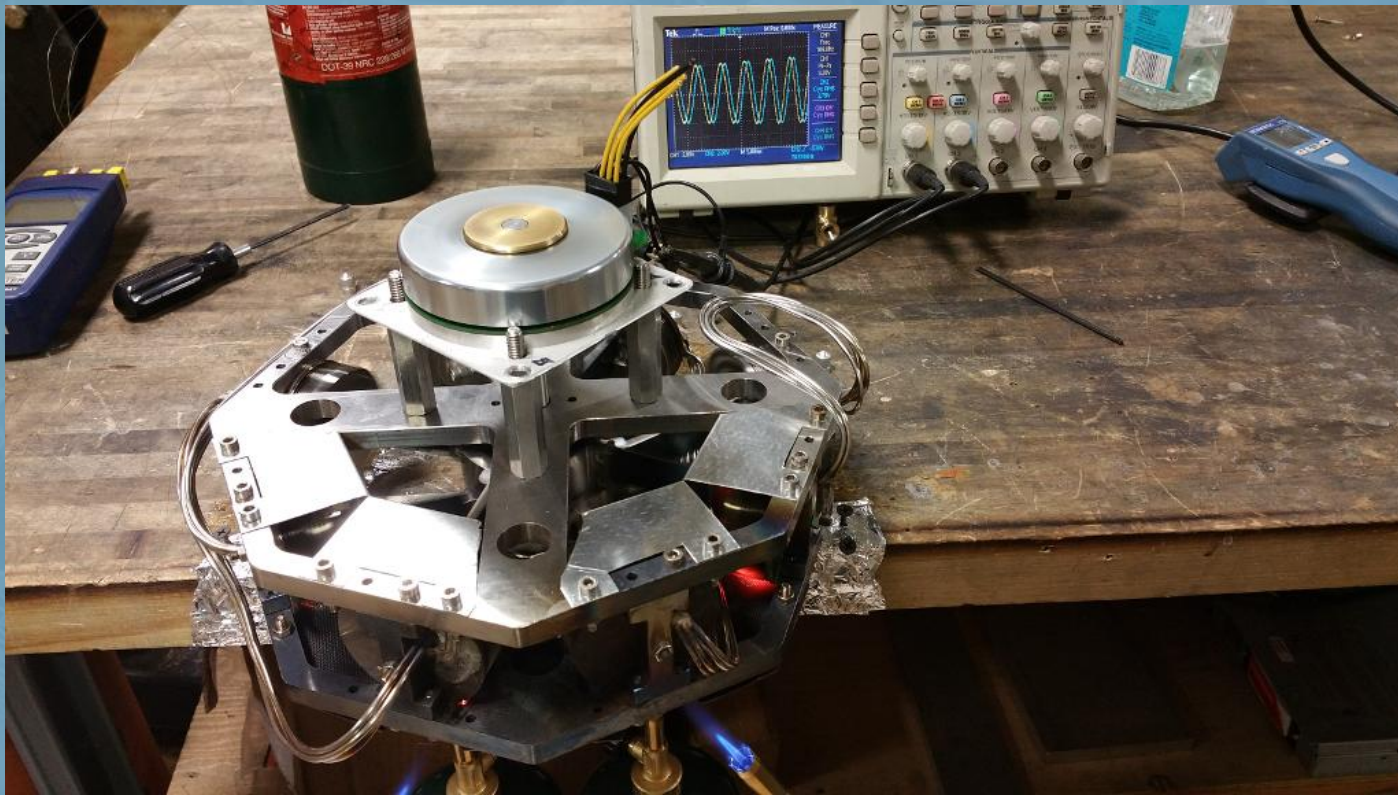
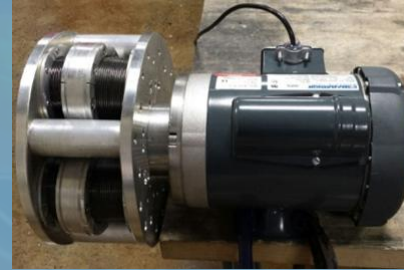
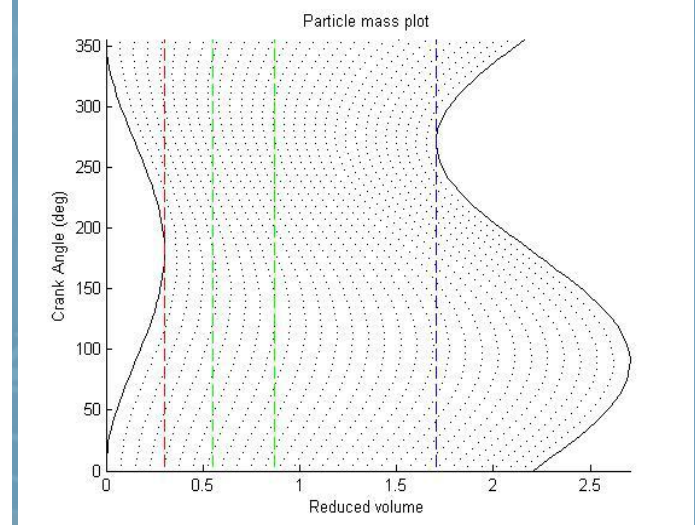
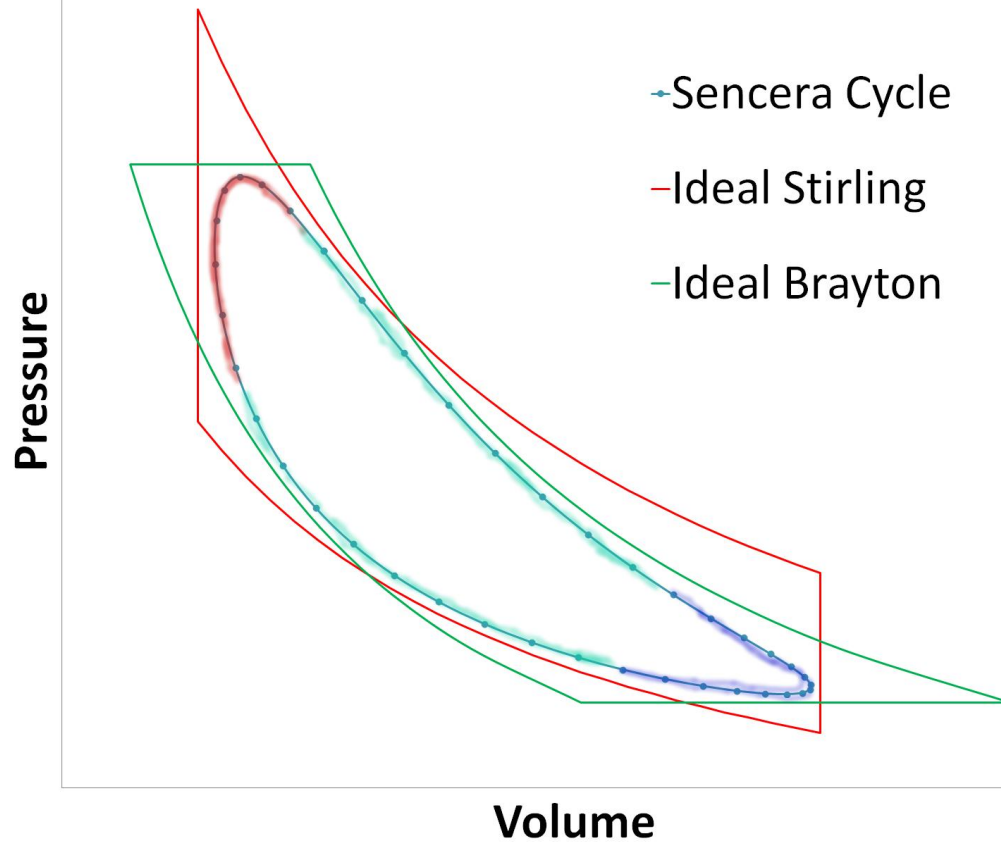


- Recuperative burner
- Engine comprised of flexure volumes forming a closed gas cycle
- Kinematic coupling to rotary motion (and for engine stroke control)
- Permanent magnet generator
- Water cooling
- Digital control system

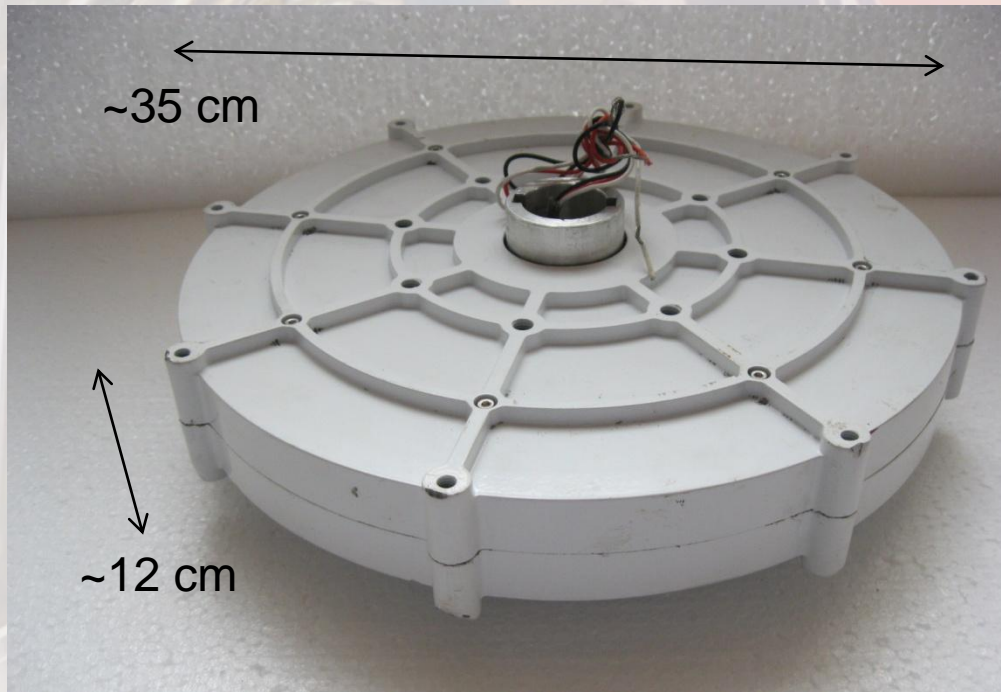
Sencera Kinematic Devices



Cycle Modeling – Stirling/hybrid



Kinematic – enables use of rotary alternator



- **Permanent Magnet**

- **Kinematic coupling converts flexure motion to rotation and controls the stroke of the engine**

Sencera Energy, Inc.

Engine

Kinematic coupler

Alternator

System controller

Burner (Looking for partners...)

Ohio University

Component lifetime testing

Emissions measurements

Cycle model verification